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## A PRELIMINARY LIST OF THE DIPTERA OF KANSAS.

BY F. H. SNOW.

NO inconsiderable amount of Kansas material in this much neglected order of insects has been accumulated in the museum of the University of Kansas as a result of the various collecting expeditions of the past twenty-five years, although chief attention has been directed to the Lepidoptera and Coleoptera. The fortunate opportunity of securing the services of Dr. C. F. Adams as a special student of the Diptera during the past year and a half has enabled the author of this paper to present this preliminary list of species.

### Family CECIDOMYIDÆ (gall-gnats).

*Cecidomyia destructor* Say. Douglas and Sedgwick counties.

### Family MYCETOPHILIDÆ (fungus-gnats).

*Ceroplatus apicalis* Adams, n. sp. Douglas county.

*Neoglaphyoptera bivittata* Say. Douglas county.

*oblectabilis* Loew. Douglas county.

*Zygoneura toxoneura* O. S. Douglas county.

### Family BIBIONIDÆ (march-flies).

*Bibio tristis* Will.

*albipennis* Say. Lincoln county.

*femorata* Wied. Douglas county.

*pallipes* Say. Douglas county.

*Plecia heteroptera* Say. Douglas county.

*Dilophus stygius* Say. Atchison county.

### Family CULICIDÆ (mosquitoes).

*Anopheles maculipennis* Meig. Douglas county.

*punctipennis* Say.

*Culex curriei* Coq. Clark county.

*inornatus* Will. Douglas county.

- Culex pungens* Wied. Douglas county.  
*tæniorhynchus* Wied. Clark county.  
*tarsalis* Coq. Clark county.  
*triseriatus* Say. Douglas county.  
*stimulans* Walk. Douglas county.  
*Conchyliastes musicus* Say. Douglas county.  
*Psorophora ciliata* Fabr. Douglas county.

Family PSYCHODIDÆ (moth-like-flies).

- Psychoda alternata* Say. Douglas county.

Family CHIRONOMIDÆ (midges).

- Ceratopogon argentatus* Loew. Douglas county.  
*subasper* Coq. Douglas county.  
*pergandei* Coq. Douglas county.  
*albaria* Coq. Douglas county.

Family TIPULIDÆ (crane-flies).

- Geranomyia canadensis* Westwood. Clark county.  
*Symplecta punctipennis* Say. Clark county.

Family LEPTIDÆ (snipe-flies).

- Rhachicercus obscuripennis* Loew. Douglas county.  
*Xylomyia americana* Wied. Douglas county.  
*pallipes* Loew. Douglas county.  
*Chrysopila apicalis* v. d. W. Douglas county.  
*quadrata* Say. Douglas county.  
*foeda* Loew. Douglas county.  
*modesta* Loew. Douglas county.

Family STRATIOMYIDÆ (soldier flies).

- Sargus decorus* Say. Douglas county.  
*viridis* Say. Douglas county.  
*Ptecticus similis* Will. Douglas county.  
*Hermetia chrysopila* Loew. Clark county.  
*Odontomyia binotata* Loew. Douglas, Clark and Riley counties.  
*cineta* Olivier. Douglas county.  
*aldrichii* Johnson. Riley county.  
*americana* Day. Morton county.  
*intermedia* Wied. Douglas county.  
*nigra* Day.  
*arcuata* Loew. Clark county.  
*Stratiomyia apicula* Loew. Douglas county.  
*meigenii* Wied. Douglas county.  
*constans* Loew. Clark county.  
*Nemotelus unicolor* Loew. Douglas and Hamilton counties.  
*pallipes* Say. Clark county.  
*kansensis* Adams, n. sp. Clark county.  
*abdominalis* Adams, n. sp. Clark county.

## Family TABANIDÆ (horse-flies).

- Chrysops sequax* Will. Logan county.  
*cestuans* Wulp. Clark county.  
*vittatus* Wied.  
*fulvaster* O. S. Clark county.
- Silvius 4-vittatus* Say. Morton and Hamilton counties.  
*pollinosus* Will. Morton and Clark counties.
- Tabanus exul* O. S. Douglas and Sedgwick counties.  
*atratus* Fabr. Clark county.  
*fulvulus* Wied. Douglas county.  
*melanocerus* Wied. Douglas county.  
*venustus* O. S. Douglas, Riley and Morton counties.

## Family ASILIDÆ (robber-flies).

- Microstylum guenelodes* Loew. Finney county.
- Osprocercus æacus* Wied. Hamilton, Morton, Logan and Clark counties.  
*æacides* Loew. Hamilton and Morton counties.
- Stenopogon consanguineus* Loew. Hamilton, Morton and Clark counties.  
*æacidinus* Will. Hamilton, Morton, Wallace and Clark counties.
- Stichopogon trifasciatus* Say. Douglas, Hamilton, Morton, Wallace and Clark counties.
- Taracticus octopunctatus* Say. Douglas county.
- Deromyia miscellus* Loew. Douglas county.  
*angustiventris* Macq. Wallace county.  
*platyptera* Loew. Douglas, Sedgwick and Wallace counties.  
*angustipennis* Loew. Wallace, Logan and Sedgwick counties.
- Saropogon adustus* Loew. Hamilton, Morton and Wallace counties.  
*combustus* Loew. Hamilton, Morton, Wallace, Clark and Finney counties.
- Atomosia rufipes* Macq. Morton county.
- Dasyllis tergissa* Say. Douglas county.
- Laphria canis* Will. Douglas county.
- Lampria rubriventris* Macq. Wallace county.
- Laphystia sexfasciata* Say. Douglas and Clark counties.
- Triclis togax* Will. Douglas county.
- Promachus bastardii* Macq. Douglas county.  
*vertebratus* Say. Douglas, Sedgwick and Wallace counties.  
*fitchii* O. S. Hamilton, Morton and Clark counties.  
*albifacies* Will. Hamilton and Morton counties.
- Erax æstuans* Linn. Morton and Riley counties.  
*cinerascens* Bell. Douglas, Hamilton, Morton, Wallace, Finney and Clark counties.  
*varipes* Will. Hamilton, Morton and Wallace counties.  
*leucomus* Will. Wallace county.  
*stamineus* Will. Clark county.  
*tricolor* Bell. Finney and Wallace counties.
- Proctacanthus milbertii* Macq. Douglas, Wallace, Logan and Clark counties.  
*philadelphicus* Macq. Hamilton and Morton counties.
- Asilus sericeus* Say. Hamilton and Morton counties.
- Rhadiurgus cirro-plaque* Will. Finney and Morton counties.

## Family MYDAIDÆ.

*Mydas clavatus* Dru. Douglas county.

## Family NEMISTRINIDÆ (tangle-veined flies).

*Rhynchocephalus sackeni* Will. Clark and Morton counties.

## Family BOMBYLIIDÆ (bee flies).

- Exoprosopa fascipennis* Say. Douglas and Clark counties.  
*fasciata* Macq. Douglas, Chase, Sedgwick, Riley and Logan counties.  
*titubans* O. S. Morton and Logan counties.  
*decora* Loew. Wallace, Finney and Clark counties.  
*dorcadion* O. S. Wallace county.
- Anthrax fulviana* Say. Morton county.  
*sabina* O. S. Clark county.  
*lateralis* Say. Hamilton and Clark counties.  
*alternata* Say. Clark county.  
*palliata* Loew. Morton county.  
*tegminipennis* Say. Clark county.  
*parvicornis* Loew. Morton and Finney counties.  
*sinuosa* Wied. Douglas county.  
*morio* Linn. Finney county.  
*systris* Coq. Hamilton county.  
*fulvohirta* Wied. Douglas county.  
*nebulosa* Coq. Finney and Hamilton counties.  
*mercedis* Coq. Morton county.  
*eumenus* O. S.? Finney county.  
*agrippina* O. S. Hamilton county.  
*halcyon* Say. Finney county.
- Spogostylum analis* Say. Douglas and Clark counties.  
*pauper* Loew. Morton and Clark counties.
- Bombylius atriceps* Loew. Douglas and Hamilton counties.  
*fratellus* Wied. Douglas county.
- Comastes robustus* O. S. Finney county.
- Systæchus vulgaris* Loew. Finney and Sedgwick counties.  
*candidulus* Loew. Douglas county.
- Sparnopolius fulvus* Wied. Douglas county.
- Lordotus gibbus* Loew. Finney county.
- Geron senilis* Fabr. Hamilton, Morton and Clark counties.
- Phthiria scolopax* O. S. Clark county.  
*sulphurea* Loew. Western Kansas (Williston).
- Toxophora maxima* Coq. Morton county.  
*pellicida* Coq. Morton and Clark counties.

## Family THEREVIDÆ (stiletto flies).

- Psilocephala rufiventris* Loew. Clark county.  
*acuta* Adams, n. sp. Clark county.  
*hæmorrhoidalis* Macq. Douglas county.  
*notata* Wied. Douglas county.  
*platancala* Loew.? Hamilton and Morton counties.

## Family SCENOPINIDÆ (window-flies).

- Scenopinus fenestralis* Fabr. Douglas county.  
*Metatrichia bulbosa* O. S. Clark county.

## Family ACROCERIDÆ (small-headed flies).

- Oncodes melampus* Loew. Douglas county.  
*pallidipennis* Loew. Douglas and Clark counties.

## Family EMPIDÆ (dance-flies).

- Syneches rufus* Loew. Douglas county.  
*Empis clausa* Coq. Douglas county.  
     *otiosa* Coq. Douglas county.  
*Rhamphomyia nasoni* Coq. Douglas county.  
*Tachydromyia pusilla* Loew. Douglas county.  
*Platypalpus æqualis* Loew. Douglas county.

## Family DOLICHOPOIDÆ (long-legged flies).

- Dolichopus bifRACTUS* Loew. Douglas county.  
     *cuprinus* Wied. Douglas county.  
     *eudactylus* Loew. Douglas county.  
     *longipennis* Loew. Douglas county.  
     *ramifer* Loew. Douglas county.  
     *scapularis* Loew. Douglas county.  
     *vigitans* Ald. Douglas county.  
     *aurifacies* Ald. Douglas county.  
     *willistonii* Ald. Douglas county.  
     *reflectus* Ald. Douglas county.  
*Pelastoneurus vagans* Loew. Douglas county.  
*Lasiargyra albicans* Loew. Douglas county.  
*Sympyenus nodatus* Loew. Douglas county.  
*Hydrophorus cerutias* Loew. Douglas county.  
*Psilopus caudatulus* Loew. Douglas county.  
     *comatus* Loew. Douglas county.  
     *patibulatus* Say. Douglas county.  
     *sipho* Say. Douglas and Sedgwick counties.  
     *flavipes* Aldr. Douglas county.

## Family SYRPHIDÆ (syrphus-flies).

- Omegasyrphus baliopterus* Loew. Clark county.  
*Micrödon pachystylum* Will. Clark county.  
     *lanceolatum* Adams, n. sp. Clark county.  
*Paragus bicolor* Fabr. Douglas county.  
     *tibialis* Fall. Douglas, Finney, Hamilton and Clark counties.  
*Pipiza pulchella* Will. Douglas, Morton and Clark counties.  
*Chrysogaster nitida* Wied. Douglas, Pottawatomie and Clark counties.  
*Platychirus hyperboreus* Staeg. Douglas county.  
     *quadratus* Say. Douglas and Clark counties.  
*Eupeodes volucris* O. S. Hamilton, Finney and Clark counties.  
*Syrphus americanus* Wied. Douglas and Hamilton counties.  
     *ribesii* Latr. Douglas county.

- Syrphus abbreviatus* Sch. Douglas county.  
*arcuatus* Fall. Finney county.
- Mesograpta geminata* Say. Douglas county.  
*marginata* Say. Douglas and Clark counties.  
*polita* Say. Douglas and Sedgwick counties.
- Sphærophoria cylindrica* Say. Douglas and Morton counties.
- Allograpta obliqua* Say. Douglas, Hamilton, Morton and Clark counties.
- Baccha clavata* Fabr. Douglas, Logan, Sedgwick and Clark counties.
- Brachyopa vacua* O. S. Douglas county.
- Volucella fasciata* Macq. Clark county.
- Copestylum marginatum* Say. Clark county.
- Eristalis æneus* Scop. Douglas county.  
*latifrons* Loew. Douglas, Finney, Morton and Clark counties.  
*tenax* Linn. Douglas county.  
*transversus* Wied. Douglas county.
- Helophilus latifrons* Leow. Douglas, Finney, Morton, Wallace and Clark counties.  
*similis* Macq. Douglas county.
- Tropidia mamillata* Loew. Douglas county.  
*quadrata* Say. Douglas county.
- Brachypalpus frontosus* Loew. Douglas county.
- Syritta pipiens* Linn. Douglas, Riley and Clark counties.
- Spilomyia 4-fasciata* Say. Douglas county.
- Milesia ornata* Fabr. Douglas county.
- Ceria abbreviata* Loew. Hamilton county.
- Cynorhina umbratilis* Will. Douglas county.

Family CONOPIDÆ (thick-head flies).

- Conops brachyrrhynchus* Macq. Douglas county.  
*excisus* Wied. Hamilton and Clark counties.  
*xanthopareus* Will. Douglas and Riley counties.  
*obscuripennis* Will. Douglas county.  
*fronto* Will. Wallace county.  
*sylvosus* Will. Shawnee county.
- Physocephala tibialis* Say. Douglas county.  
*affinis* Will. Clark county.
- Stylogaster neglecta* Will. Douglas and Riley counties.  
*biannulata* Say. Douglas county.
- Oncomyia baronii* Will. Douglas county.
- Zodion bicolor* Adams, n. sp. Douglas county.  
*fulvifrons* Say. Douglas, Hamilton and Clark counties.  
*obliquefasciata* Macq. Clark county.  
*pygmæum* Will. Clark county.  
*abitus* Adams, n. sp. Douglas county.
- Myopa vesiculosa* Say. Douglas county.

Family PIPUNCULIDÆ (big-eyed flies).

- Pipunculus elegantulus* Will. Douglas county.  
*cingulatus* Loew. Douglas county.  
*nitidiventris* Loew. Douglas county.  
*subopacus* Loew. Douglas county.  
*subvirescens* Loew. Douglas county.

## Family PLATYPEZIDÆ (flat-footed flies).

*Platypeza velutina* Loew. Douglas county.

## Family ESTRIDÆ (bot-flies).

*Gastrophilus equi* Fabr. Douglas, Riley and Hamilton counties.

*nasalis* Linné. Riley, Morton and Clark counties.

*Hypoderma lineata* Villers. Seward county.

## Family TACHINIDÆ (tachina-flies).

*Tachina mella* Walk. Douglas county.

*Cistogaster divisa* Loew. Douglas county.

*immaculata* Macq. Douglas and Clark counties.

*Gymnosoma fuliginosa* Desv. Douglas and Clark counties.

*Phoranthia occidentis* Walk. Clark county.

*Trichopoda pennipes* Fabr. Douglas and Atchison counties.

*Myiophasia ænea* Wied. Douglas county.

*Cryptomeigenia theutis* Walk. Douglas county.

*Hypostena maculosa* Coq. Douglas county.

*Leucostoma atra* Town. Douglas county.

*Clytiomyia flava* Town. Douglas, Clark and Hamilton counties.

*Wahlbergia arcuata* Say. Douglas county.

*Hemyda aurata* Desv. Douglas county.

*Epigrimyia polita* Town. Clark county.

*Paraplagia spinosula* Bigot. Hamilton county.

*Plagia americana* v. d. W. Douglas and Clark counties.

*Siphoplagia anomala* Town. Clark county.

*Distichona varia* v. d. W. Douglas county.

*Chætoglossa picticornis* Town. Douglas county.

*Pachyophthalmus floridensis* Town. Douglas county.

*Senotainia kansensis* Town. Riley county.

*rubriventris* Macq. Douglas, Clark and Hamilton counties.

*trilineata* v. d. W. Douglas and Clark counties.

*Biomyia brasiliana* Br. & Berg. Clark county.

*Belvosia bicincta* Desv. Douglas county.

*bifasciata* Fabr. Douglas county.

*Aphria ocypterata* Town. Clark county.

*Ocyptera carolinæ* Desv. Douglas and Clark counties.

*Linnaemyia comta* Fall. Douglas county.

*Exorista pyste* Walk. Douglas and Clark counties.

*confinis* Fall. Douglas county.

*eudryæ* Town. Douglas county.

*Euphorocera claripennis* Macq. Douglas county.

*Phorocera doryphoræ* Riley. Douglas county.

*Masicera schizuræ* Town. Riley county.

*Frontina frenchii* Will. Douglas county.

*Sturmia albifrons* Walk. Douglas county.

*Euthera tentatrix* Loew. Topeka.

*Winthemia quadripustulata* Fabr. Douglas county.

*Paradidyma singularis* Town. Morton, Hamilton and Clark counties.

*Metachæta helymus* Walk. Douglas county.

*Phorichæta sequax* Will. Douglas county.

- Chaetoplagia atripennis* Coq. Douglas and Clark counties.  
*Araba tergata* Coq. Clark county.  
*Opsidia goniodes* Coq. Douglas county.  
*Hilarella fulvicornis* Coq. Douglas county.  
     *polita* Town. Douglas county.  
     *decens* Town. Morton county.  
*Gonia capitata* DeG. Douglas, Atchison, Hamilton and Clark counties.  
     *frontosa* Say. Hamilton county.  
     *sagax* Will. Douglas county.  
     *senilis* Will.  
*Cnephalia ruficauda* Town. Douglas county.  
*Spallanzania hesperidarum* Will. Douglas and Clark counties.  
*Chaetogædia analis* v. d. W. Douglas county.  
*Trichophora ruficauda* v. d. W. Douglas county.  
*Cuphocera fucata* v. d. W. Douglas county.  
*Peleteria robusta* Wied. Atchison, Douglas, Clark and Hamilton counties.  
*Siphona geniculata* DeG. Douglas county.  
*Jurinia apicifera* Walk. Douglas and Clark counties.  
     *smaragdina* Macq. Atchison and Douglas counties.  
     *algens* Wied. Douglas county.  
     *lateralis* Macq. Douglas county.  
     *hystricosa* Will. Douglas county.  
     *hystricoides* Will. Douglas county.

Family SARCOPHAGIDÆ (flesh-flies).

- Sarcophaga cimbicis* Town. Ford county.  
     *carnaria* Linn. Douglas county.  
*Tephromyia hunteri* Hough. Ford county.

Family MUSCIDÆ (house-flies, blow-flies, screw-worm flies, horse-flies, etc.)

- Hæmatobia serrata* Desv. Douglas, Osage, Coffey and Russell counties.  
*Stomoxys calcitrans* Linn. Douglas county.  
*Calliphora erythrocephala* Meig. Douglas and Hamilton counties.  
     *vomitorea* Linné. Douglas and Clark counties.  
*Callomyia aldrichii* Snow. Douglas county.  
*Lucilia cæsar* Linn. Douglas county.  
     *sylvarum* Meig. Douglas county.  
     *sericata* Meig. Hamilton county.  
*Pseudopyrellia cornicina* Fabr. Douglas, Morton and Clark counties.  
*Compsomyia macellaria* Fab. Douglas, Hamilton, Morton and Clark counties.  
*Phormia regina* Meig. Douglas, Morton and Hamilton counties.  
     *terræ-novæ* Macq. Douglas county.  
*Musca domestica* Linn.  
*Cyrtoneura stabulans* Fall. Douglas county.  
*Morellia micans* Macq. Douglas county.  
*Myospila meditabunda* Fab. Douglas county.

Family ANTHOMYIDÆ (vegetable maggots).

- Anthomyia radicum* Linn., var. *calopteni* Riley. Atchison and Brown counties.  
     *angustifrons* Meig. Douglas county.



## Family MICROPEZIDÆ.

- Micropeza turcana* Town. Hamilton, Morton and Clark counties.  
*Calobata antennipennis* Say. Douglas county.

## Family PSILIDÆ.

- Loxocera cylindrica* Say. Douglas county.  
*pleuritica* Loew. Douglas county.

## Family ORTALIDÆ.

- Pyrgota undata* Wied. Clark county.  
*Rivellia quadrifasciata* Macq. Douglas county.  
*micans* Loew. Douglas and Clark counties.  
*variabilis* Loew. Douglas county.  
*pallida* Loew. Clark county.  
*Camptoneura picta* Fabr. Douglas county.  
*Tetanops luridipennis* Loew. Douglas county.  
*Tephronota humilis* Loew. Douglas county.  
*Strictocephala cribrum* Loew. Hamilton and Logan counties.  
*cribellum* Loew. Clark county.  
*Callopietria annulipes* Macq. Douglas county.  
*Cedopa capito* Loew. Morton and Hamilton counties.  
*Chætopsis æna* Weid. Douglas and Clark counties.  
*Stenomyia tenuis* Loew. Douglas county.  
*Eumetopia rufipes* Macq. Douglas county.

## Family TRYPETIDÆ (apple maggots, etc.)

- Straussia longipennis* Wied. Douglas county.  
*Spilographa electa* Say. Douglas and Clark counties.  
*Edicarena persuasa* O. S. Morton county.  
*diffusa* Snow. Douglas, Morton, Riley and Wallace counties.  
*Plagiotoma obliqua* Say. Sedgwick county.  
*Edaspis atra* Loew. Douglas county.  
*gibba* Loew. Douglas county.  
*Carphotricha culta* Wied. Douglas, Clark, Finney, Morton and Wallace counties.  
*Eurosta solidaginis* Fitch. Douglas county.  
*Neaspilota alba* Loew. Douglas, Clark, Morton and Hamilton counties.  
*Ensina humilis* Loew. Clark county.  
*æqualis* Loew. Douglas county.  
*Tephritis finalis* Loew. Clark, Morton and Riley counties.  
*Euaresta bella* Loew. Douglas county.  
*festiva* Loew. Douglas county.  
*tapsetis* Coq. Morton county.  
*Urellia abstersa* Loew. Douglas and Morton counties.  
*actinobola* v. d. W. Clark county.  
*solaris* Loew. Western Kansas (Williston).

## Family SAPROMYZIDÆ.

- Lonchæa polita* Say. Clark county.  
*Sapromyza tenuispina* Loew. Hamilton county.

## Family SCIOMYZIDÆ.

- Tetanocera costalis* Loew. Clark county.  
*pictipes* Loew. Clark county.  
*Sæpedon fuscipennis* Loew. Clark county.  
*armipes* Loew. Sedgwick county.

## Family SCATOMYZIDÆ.

- Cleigastra suistere* Town. Douglas county.

## Family SEPSIDÆ.

- Sepsis violacea* Meig. Hamilton and Morton counties.

## Family PIOPHILIDÆ (cheese maggots).

- Piophila casei* Linné. Douglas and Wyandotte counties.

## Family EPHYDRIDÆ (water-flies).

- Paralimna appendiculata* Loew. Finney and Morton counties.  
*Brachydeutra dimidiata* Loew. Douglas county.

## Family DROSOPHILIDÆ (pomace-flies).

- Drosophila ampelophila* Loew. Douglas county.

## Family OSCINIDÆ (singing-flies).

- Oscinis nadiuscula* Loew. Douglas county.  
*pallipes* Loew. Douglas county.  
*variabilis* Loew. Douglas county.  
*Meromyza americana* Fitch. Douglas and Finney counties.  
*Siphonella cinerea* Loew. Morton county.  
*Chlorops appropinqua* Adams. Finney county.  
*assimilis* Macq. Douglas, Sedgwick, and Morton counties.  
*cineripennis* Adams. Riley county.  
*grata* Loew. Douglas county.  
*maculosa* Loew. Douglas county.  
*melanocera* Loew. Douglas county.  
*parva* Adams. Douglas county.  
*pullipes* Coq. Morton and Finney counties.  
*unicolor* Loew. Finney county.  
*vesicolor* Loew. Douglas county.  
*Elachiptera costata* Loew. Douglas county.  
*longula* Loew. Douglas county.

## Family BORBORIDÆ.

- Limosina fontinalis* Fall. Douglas county.  
*near æqualis*. Douglas county.  
*atra* Adams. n. sp. Douglas county.  
*setigera* Adams. n. sp. Douglas county.  
*Borborus equinus* Fall. Douglas county.  
*Sphærocera coprophagus*. Douglas county.

## Family HIPPOBOSCIDÆ (house flies).

Hippobosca bubonis Bachard. Douglas county.

Total, 392 species.

## SUMMARY OF SPECIES OF KANSAS DIPTERA.

Cecidomyiidae.....	1	Platypezidae.....	1
Mycetophilidae.....	4	Cevidae.....	3
Bibionidae.....	6	Tachinidae.....	65
Culicidae.....	11	Sarcophagidae.....	3
Psychodidae.....	1	Muscidae.....	16
Chironomidae.....	4	Anthomyidae.....	2
Tipulidae.....	2	Micropozidae.....	2
Leptidae.....	7	Psilidae.....	2
Stratiomyidae.....	18	Ortalidae.....	15
Tabanidae.....	11	Trypetidae.....	19
Asilidae.....	33	Sapromyzidae.....	2
Mydidae.....	1	Sciomyzidae.....	4
Nemestrinidae.....	1	Scatomyzidae.....	1
Bombyliidae.....	35	Sepsidae.....	1
Therevidae.....	5	Piophilidae.....	1
Scenopinidae.....	2	Ephryidae.....	2
Acroceridae.....	2	Drosophilidae.....	1
Empidae.....	6	Oscinidae.....	17
Dolichopodidae.....	19	Borboridae.....	6
Syrphidae.....	37	Hippoboscidae.....	1
Conopidae.....	17	Total.....	392
Pipunculidae.....	5		

I am glad to publish in connection with the preceding list descriptions of six new species included therein, by my fellow worker in entomology, Dr. Charles F. Adams:

*Nemotelus abdominalis*, n. sp.

Male. Head and members black, frontal triangle white, a very narrow band on apex of second antennal joint yellow, proboscis long, jointed, the distal part much longer than basal and curves downward. Thorax black, pile white, the humeri, a narrow lateral line, and halteres, except the extreme base of peduncle, white. Abdomen wholly white. Legs yellowish white, with coxæ, basal three-fourths of femora, and a narrow band on tibiæ, black. Wings hyaline, larger veins yellowish translucent, the third vein forked.

Female. Front on anterior part with a triangular white spot on each side; abdomen black, the narrow lateral margins, a broad apical band attenuated at each end on each segment, and venter in the middle, white. Otherwise it agrees with the male. Length, 4 mm.

Numerous specimens, Englewood, Clark county, Kansas. Collected during June, 1903, by Dr. F. H. Snow. Close to *N. immaculatus* John., but the color and markings of the antennæ and humeri are different.

*Nemotelus kansensis*, n. sp.

Male. Head and members black, shining, the frontal triangle white, pro-

boscis long, the distal portion curving downward. Thorax shining black; pile, which is most prominent on the mesonotum, white; a small spot on humeri and sometimes a very narrow line extending half-way to base of wing, white; halteres white, with base of peduncle brownish black. Abdomen wholly white, except a rather long transverse black stripe on fifth segment. Legs black; tip of femora, base and tip of tibiae, and tarsi, except last joint, which is brown, yellow. Wings hyaline, larger veins yellowish translucent, third vein forked.

Female. Similar to the male, except in following particulars: Front is sometimes without white markings, other specimens have two white dots laterally at anterior end; abdomen black, lateral margins, a triangular spot on second, third, and fourth segments, posterior margin of last segment, and a median row of small dots on venter, white. Length, 5.5 mm.

Numerous specimens of each sex, Englewood, Clark county, Kansas. Collected during June, 1903, by Dr. F. H. Snow.

*Psilocephala acuta*, n. sp.

Female. Head yellow, opaque; ocellar tubercle unusually prominent, front in profile slightly excavated, with a small median fissure on lower half, two velvety black spots on lower half next to eyes; pile black, face with a black spot near lower angle of eye; antennae yellow, first joint about as long as the third, bristles black, second joint nearly as broad as the first, third pear-shaped, slightly broader than the first, base and arista brownish black, palpi yellow, with black pile, proboscis brownish: cheeks thickly covered with white pollen and pile, bristles of occiput black; upper and lower angles of eyes acute. Thorax yellow pollinose, two median brownish lines on mesonotum abbreviated behind, two sublateral ones abbreviated anteriorly, pile white, bristles of mesonotum, metapleuræ and scutellum black, the latter two in number; halteres yellowish white, with a blackish spot at junction of peduncle and knob. Abdomen brownish, apex of segments yellow, subopaque, sparse pile white and black, venter largely brownish. Legs yellow; trochanters, an indefinite ring at apex of femora, extreme tip of tibiae, tip of first two tarsal joints, and last three joints wholly brown; pile white, bristles black. Wings hyaline, veins black, most of the cells on basal and anterior part occupied largely by grayish brown; in last four posterior cells the grayish brown is not so intense; a small spot on humeral cross-vein, one at base of second vein, and one at apex of first vein black; fourth posterior cell broadly open.

Male. A black spot at apex of frontal triangle, dorsum of abdomen light yellow, pile white, venter largely yellowish, hind coxae and all femora largely brownish, wings nearly wholly hyaline, small grayish-brown spot in marginal, submarginal, posterior and anal cells; otherwise agrees with the female. Length, 8 mm.

One male and several females, Englewood, Clark county, Kansas. Collected during June, 1903, by Dr. F. H. Snow.

*Microdon lanceolatum*, n. sp.

Male. Head black, subshining, covered with brownish-yellow pile; eyes bare; antennae black, first joint equal to the second and third together in length, second about half as long as the third, third, when viewed from the side, lanceolate, from above subconical, arista basal, nearly as long as the third antennal joint, brownish black at base, yellowish on apical two-thirds; mouth-parts brownish. Thorax black, subshining, mesonotum and scutellum thickly brownish yellow pilose, pleuræ sparsely so, scutellum without spines, halteres yellow.

Abdomen black, subshining, yellowish pilose, the third segment except largely on posterior angles, the fourth except narrow posterior border, and venter of latter, black pilose. Legs black, sparsely yellow pilose, hind metatarsi slightly incrassate, about as long as the following joints together, all pulvilli yellowish. Wings hyaline, veins black, indistinctly infuscated. Length, 12 mm.

One specimen, Englewood, Clark county, Kansas. Collected during June, 1903, by Dr. F. H. Snow.

*Limosina atra*, n. sp.

Female. Black throughout; antennæ porrect, third joint broader than long, arista pubescent; mesonotum slightly pollinose, scutellum opaque. Abdomen and legs entirely black. Wings subhyaline, third section of costa shorter than the second, distal section of second vein much longer than the first section of the third, third vein with a slight curvature forward, ending before apex of wing. Length, 1.5 mm.

One specimen, Douglas county, Kansas.

*Limosina setigera*, n. sp.

Female. Front opaque black, median line and orbits shining, occiput black, cheeks and mouth-parts largely yellowish, antennæ black, porrect, arista pubescent. Thorax black, moderately shining, bristles of anterior part of mesonotum rather strong, pleuræ with a brownish cast, scutellum opaque, halteres light brown. Abdomen and legs brownish black; first and last joints of hind tarsi black. Wings hyaline, third section of costa shorter than the second, distal section of second vein over twice as long as the first section of the third, ending in the costa considerably beyond the apex of the discal cell, third vein with a slight curvature forward, ending before tip of wing. Length, 2 mm.

Two specimens, one from Douglas county, the other from Magdalena mountains, New Mexico. The latter was taken by Dr. F. H. Snow in August, 1894.